ELSEVIER

Journal of Membrane Science 101 (1995) 179–180

journal of MEMBRANE SCIENCE

Contents

Electromembrane systems in conditions of concentration polarization: new developments in the rotating membrane disk method
O.V. Bobreshova, P.I. Kulintsov (Voronezh, Russian Federation) and E.M. Balavadze (Moscow, Russian Federation) 1

Temperature-responsive shrinking kinetics of poly(*N*-isopropylacrylamide) copolymer gels with hydrophilic and hydrophobic comonomers
Y. Kaneko, R. Yoshida, K. Sakai, Y. Sakurai and T. Okano (Tokyo, Japan) 13

Concentration fields of solutions under electrodialysis with ion-exchange membranes
V.A. Shaposhnik, V.I. Vasil'eva and D.B. Praslov (Voronezh, Russia) 23

Fluidized bed reactors without and with selective membranes for the catalytic dehydrogenation of ethylbenzene to styrene
B.K. Abdalla (Seri Iskander Tronoh, Perak, Malaysia) and S.S.E.H. Elnashaie (Riyadh, Saudi Arabia) ... 31

Effect of nonaqueous solvents on the flux behavior of ultrafiltration membranes
R.W. Lencki and S. Williams (Guelph, Ontario, Canada) 43

Influence of monomer functionality on the formation and ion exchange properties of methacrylate-based interpenetrating polymer network type membranes
B. Glad and K. Irgum (Umeå, Sweden) 53

A new computational technique for the analysis of diffusion permoporometric data for asymmetric membranes
A. Hazri and A.M. Vaidya (Glasgow, United Kingdom) 61

Filtration studies of selected anionic dyes using asymmetric titanium dioxide membranes on porous stainless-steel tubes
J.J. Porter and R.S. Porter (Clemson, SC, USA) 67

Solution-diffusion-imperfection model revised
A.E. Yaroshchuk (Kiev, Ukraine) 83

Formation of hydrogen-permselective SiO_2 membrane in macropores of α-alumina support tube by thermal decomposition of TEOS
S. Morooka, S. Yan, K. Kusakabe (Fukuoka, Japan) and Y. Akiyama (Kasuga, Japan) 89

Compaction of microporous membranes used in membrane distillation. I. Effect on gas permeability
K.W. Lawson, M.S. Hall and D.R. Lloyd (Austin, TX, USA) 99

The permeability of carbon dioxide and methane in poly(organosiloxane) membranes containing mono- and di-ester functionalities
A.J. Ashworth, B.J. Brisdon, R. England, A.G.W. Hodson and A.R. Watts (Bath, United Kingdom) 109

Effects of feed-side solute polarization on pervaporative stripping of volatile organic solutes from dilute aqueous solution: a generalized analytical treatment
A.S. Michaels (Chestnut Hill, MA, USA) 117

Unified formulation of isothermal adsorbate flow in mesoporous media over the full vapor pressure range
J.H. Petropoulos and G.K. Papadopoulos (Athens, Greece) 127

0376-7388/95/$9.50 © 1995 Elsevier Science B.V. All rights reserved
SSDI 0376-7388(95)9999-Z

Uphill and selective transport of uranyl ions through 2,3-epithiopropyl methacrylate-dodecyl methacrylate-methacrylamide propyl trimethyl ammonium chloride terpolymer membranes
T. Nonaka and M. Kawamoto (Kumamoto-shi, Japan) 135
Empirical correlations for prediction of permeability of gases/liquids through polymers
G.S. Patil, M. Bora and N.N. Dutta (Jorhat- Assam, India) 145
Steps of membrane blocking in flux decline during protein microfiltration
W.R. Bowen (Swansea, United Kingdom), J.I. Calvo and A. Hernández (Valladolid, Spain) 153
Analysis of a membrane/distillation column hybrid process, J. Membrane Sci., 93 (1994) 31–44.
S. Moganti, R.D. Noble and C.A. Koval (Boulder, CO, USA) 167

Meetings calendar 173
Author index 175
Subject index 177
Contents 179